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# NASA Procedural Requirements

**COMPLIANCE IS MANDATORY****NPR 6000.1G**Effective Date: March 28,  
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2010[Printable Format \(PDF\)](#)

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## Subject: Requirements for Packaging, Handling, and Transportation for Aeronautical and Space Systems, Equipment, and Associated Components

**Responsible Office: Logistics Management Division**[| TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [AppendixA](#) | [AppendixB](#) | [AppendixC](#) | [ALL](#) |

## Chapter 1. Basic Principles

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### 1.1. Scope

1.1.1. This NPR defines general requirements for preservation, packaging, packing, marking, handling, transportation, and related data and documentation pertaining to all NASA procured software and hardware items. For the purposes of this NPR, the definitions in Appendix A shall apply.

1.1.2. The requirements of this NPR do not supersede detailed NASA-approved preservation, packaging, marking, handling, and transportation specifications or procedures. Contractual provisions regarding supersession will apply. This NPR may be used as part of, or as a supplement to, other approved specifications or procedures. Appropriate paragraphs of this publication may be incorporated by reference in a contract to spell out the obligations of the parties with respect to hazardous items, NASA critical item labeling, and special packaging, handling, and transportation data for mission-essential items.

1.1.3. When this NPR is incorporated contractually by reference, the procurement documents shall cite its title and date and, if desired, specific direction as follows:

1.1.3.1. Level of preservation and packaging and level of packing to be supplied (see paragraph 2.1.).

1.1.3.2. Listing of items requiring a Packaging, Handling, and Transportation Record (see paragraph 3.1.).

1.1.4. Specifications and procedures for preservation, packaging, packing, marking, handling, transportation, and related data and documentation shall be compatible with this NPR except to the extent that a deviation or waiver is approved in accordance with paragraph 1.2. herein. The mere citation of this NPR or the mere incorporation by reference of this NPR, or a part thereof, does not constitute compliance with any other applicable requirement that detailed or specific provisions be provided or stated in a particular document.

### 1.2. Deviation and Waiver Requests

Technical changes, deviations, or waivers sought from any requirement of the NPR shall be requested from, and approved in writing by, the applicable Contracting Officer with final approval from the Agency Manager of Transportation Programs, Institutional and Corporate Management Office located at NASA Headquarters. When requesting technical changes, deviations, or waivers, the requestor must provide detailed justification outlining the uniqueness associated with their request, timeline deviation and/or waiver is needed, program and/or project office supporting, Contract Number (if applicable), and suspense date needed for implementation.

### 1.3. Policy

#### 1.3.1. General

Preservation, packaging, and packing shall comply with the basic NASA objective of achieving adequate protection of the contained items at minimum cost. However, exceptions are granted for items defined as mission essential. While nonessential requirements should be avoided, the protection afforded these items must not be marginal.

### 1.3.2. Preservation, Packaging, Packing, Marking, Handling, and Transportation Safety, Reliability, and Quality

Retention of item safety, reliability, and quality shall be a major consideration in the development or selection of preservation, packaging, packing, marking, handling, and transportation approaches throughout their implementation for mission-essential and/or sensitive items. Each Center Transportation Officer and contractors shipping on behalf of NASA shall have program establishing policies, procedures, and responsibilities for control of this process to achieve zero damage on delivery shall be implemented. Regulatory and programmatic requirements shall be identified, met, and verified by NASA Center safety, reliability, and quality management processes.

### 1.3.3. Contingency Planning for Emergency Incidents

Due to the hazardous materials content of some critical space item shipments, it is prudent that all reasonable precautions be taken during movement of material. All shipments shall be in strict compliance with 49 CFR, Subtitle B, Chapter I, as well as applicable Center emergency response plans.

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